

Figure 1 - GSM1x System Architecture using the MSN

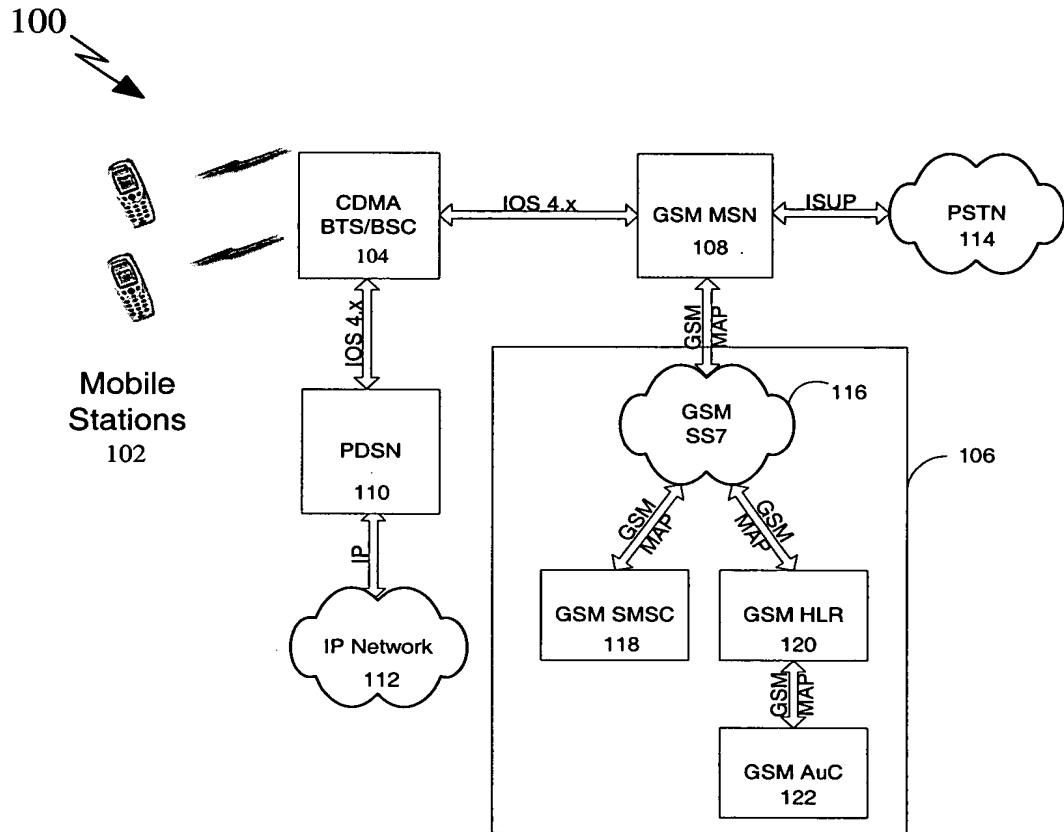


FIGURE 1

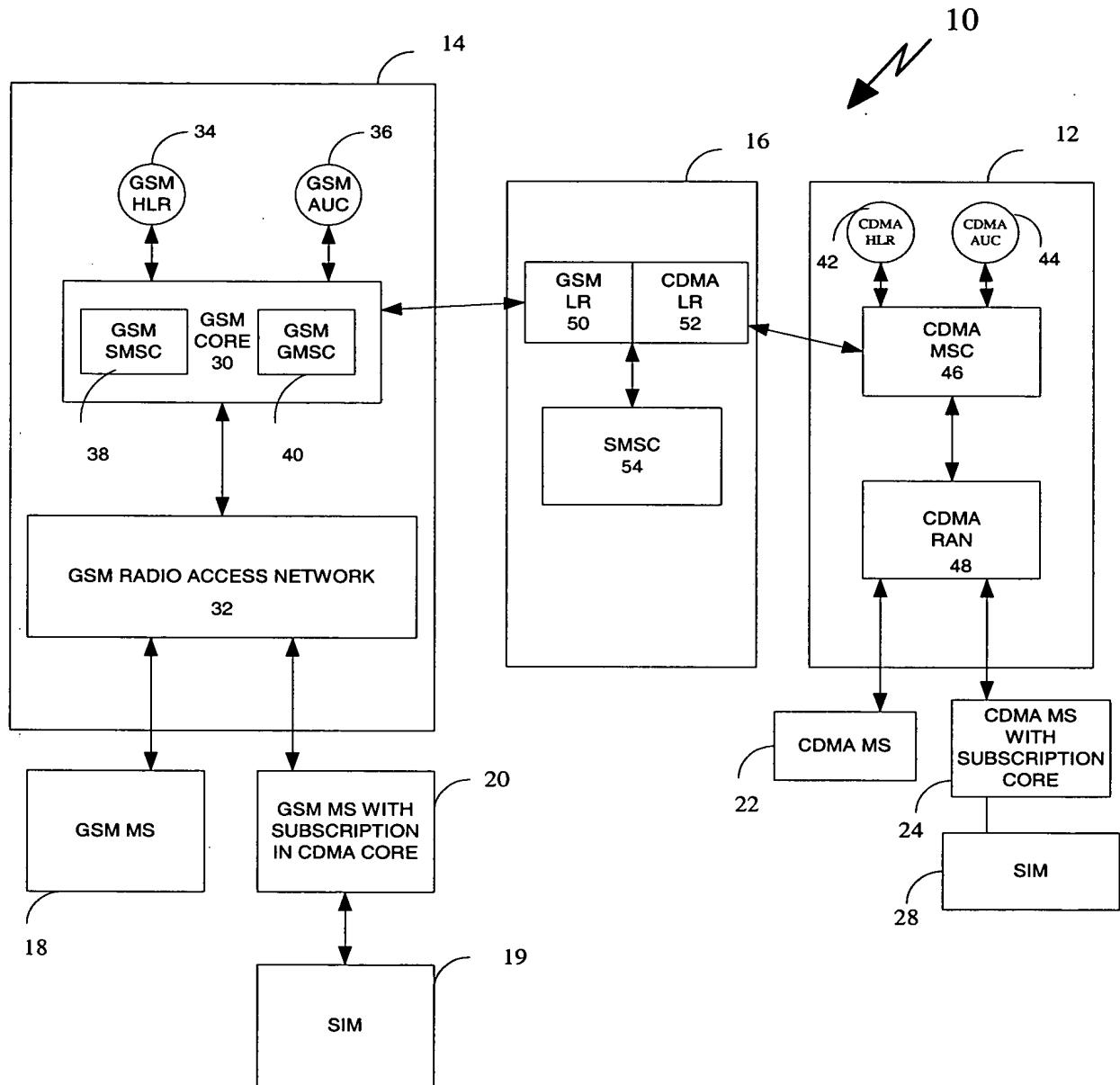
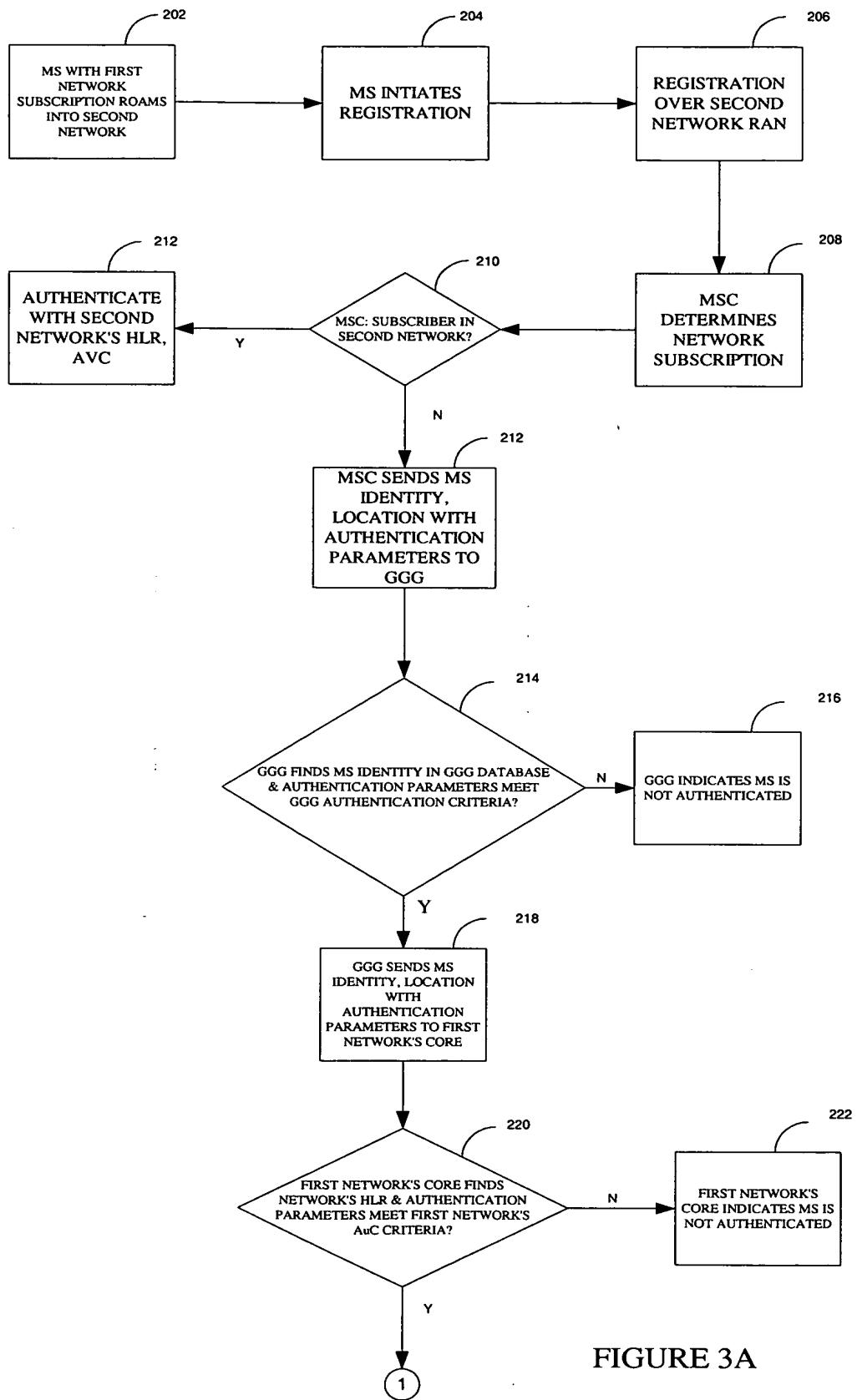


FIGURE 2



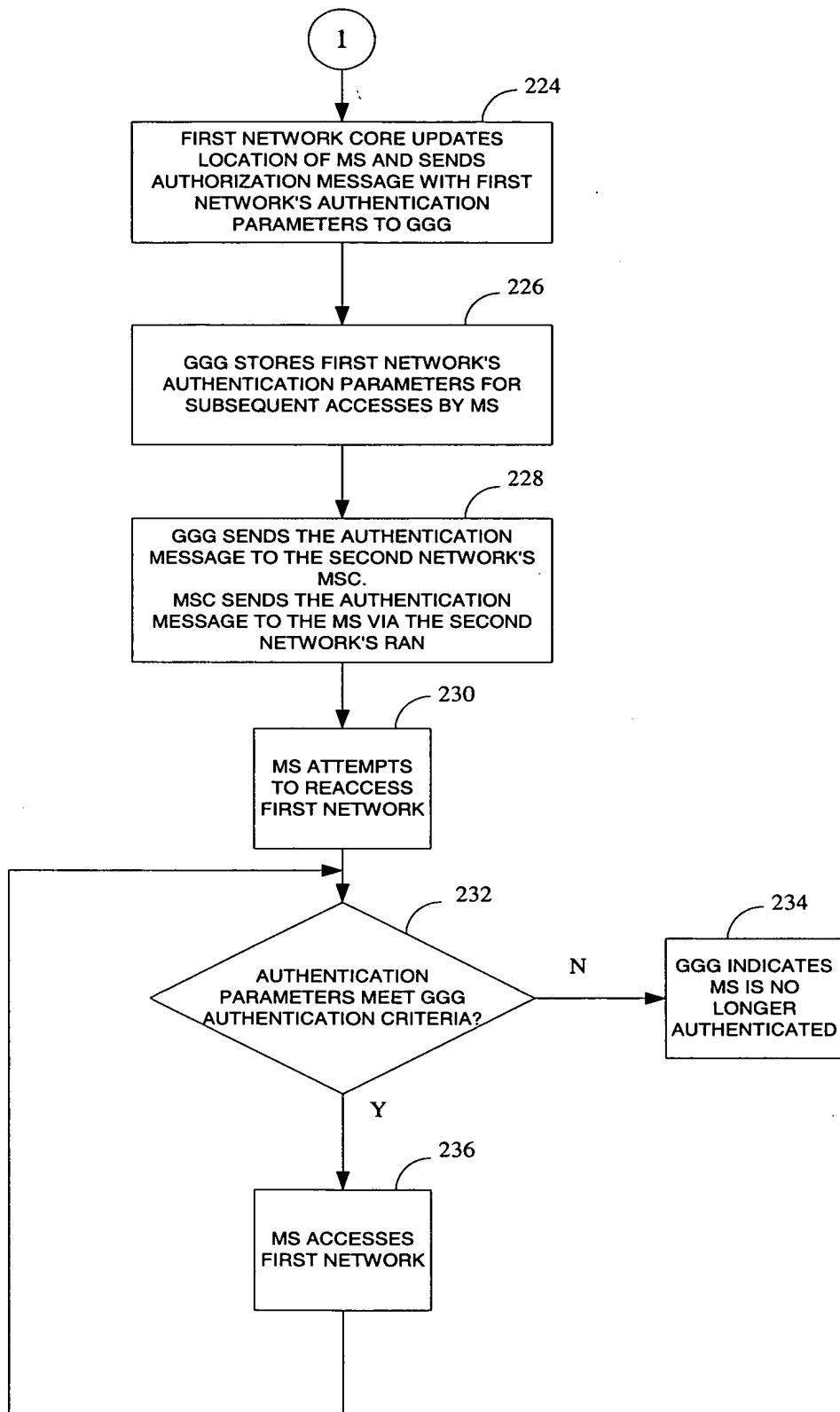


FIGURE 3B

Figure 4

ANSI-41 method of producing authentication keys

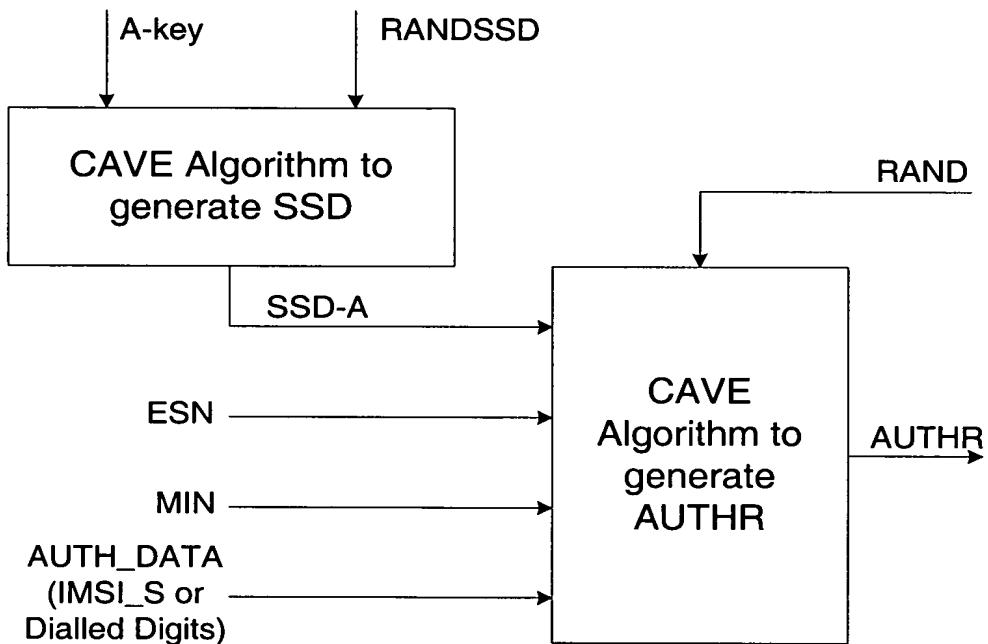


Figure 5

Using Kc as SSD-A

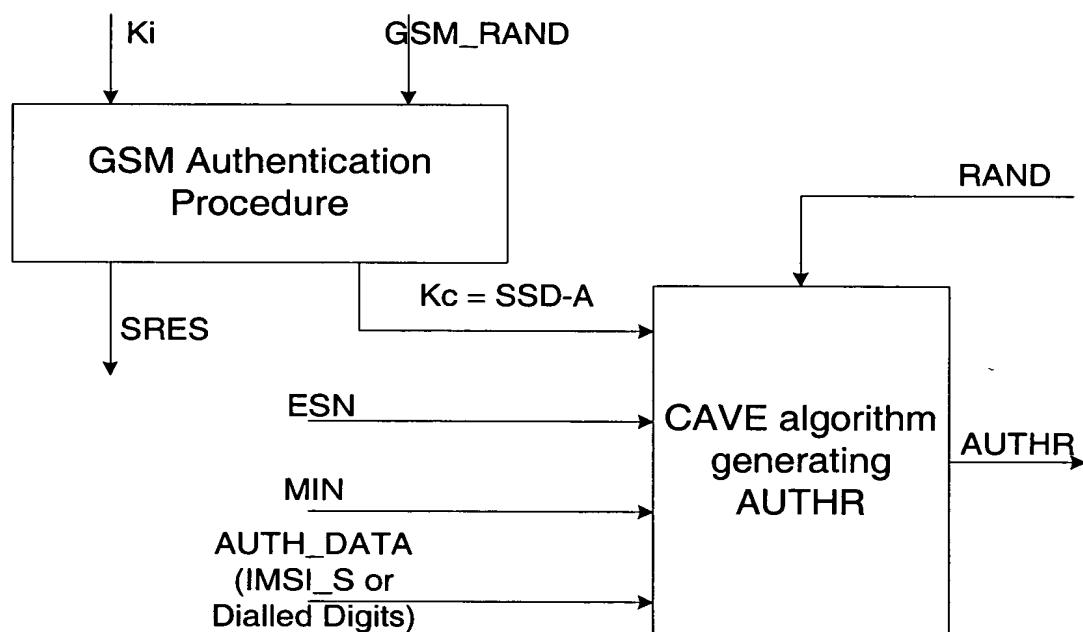


Figure 6

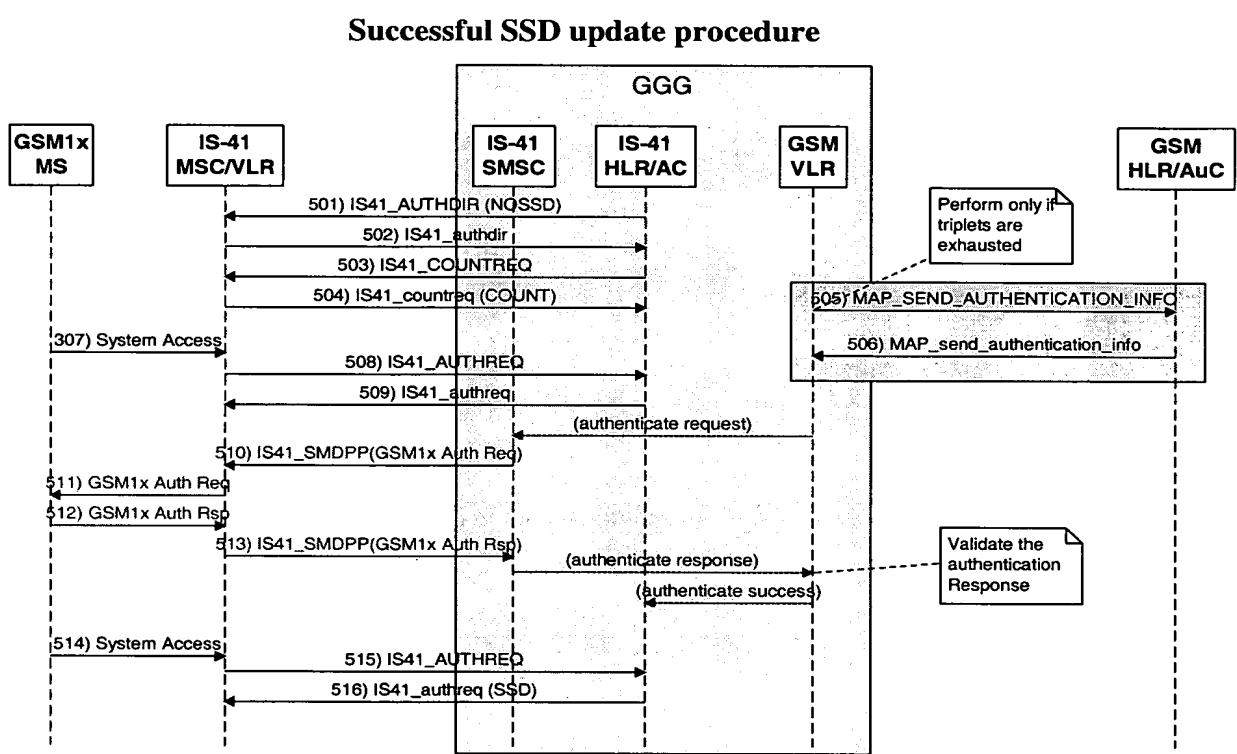


Figure 7

Initial registration with SSD sharing

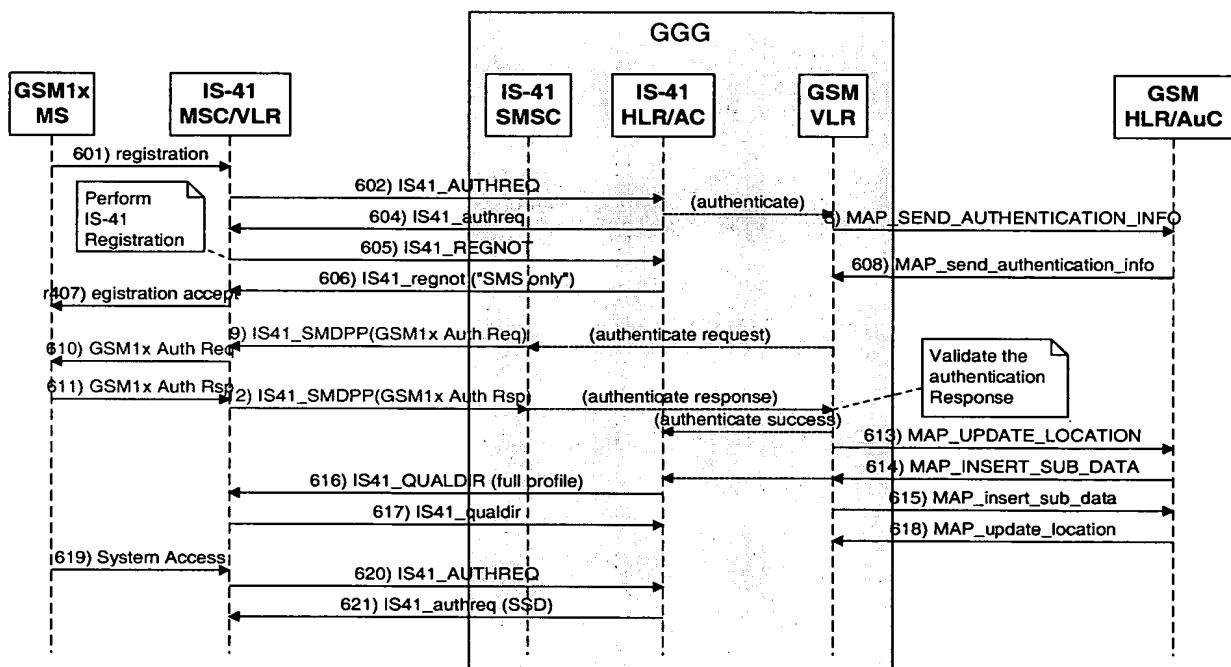
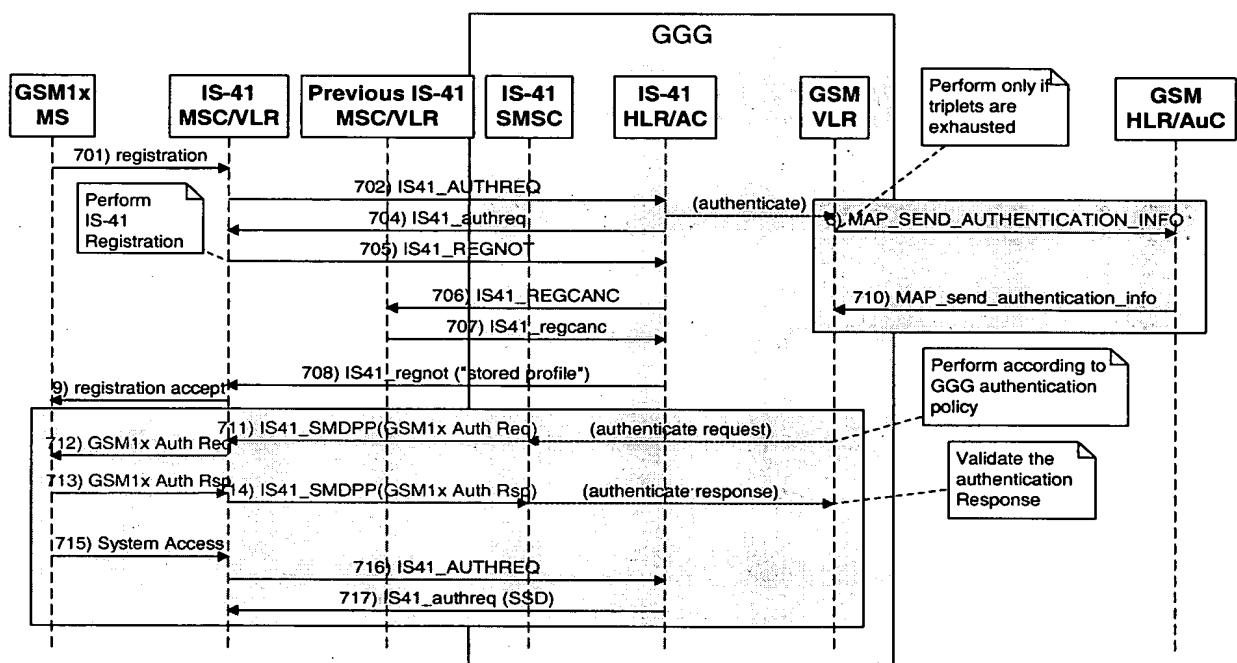


FIGURE 8

Successful registration with new MSC/VLR with SSD sharing.



**Figure 9 - Outline of
Authentication Procedure**

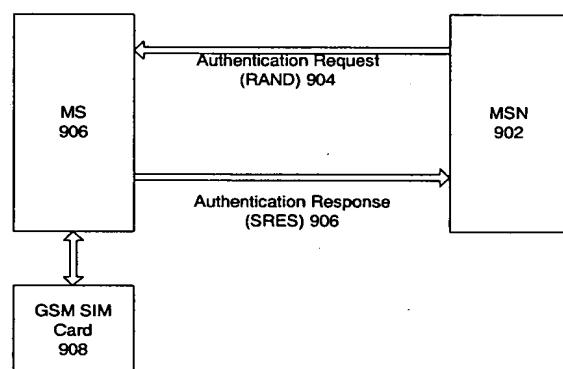
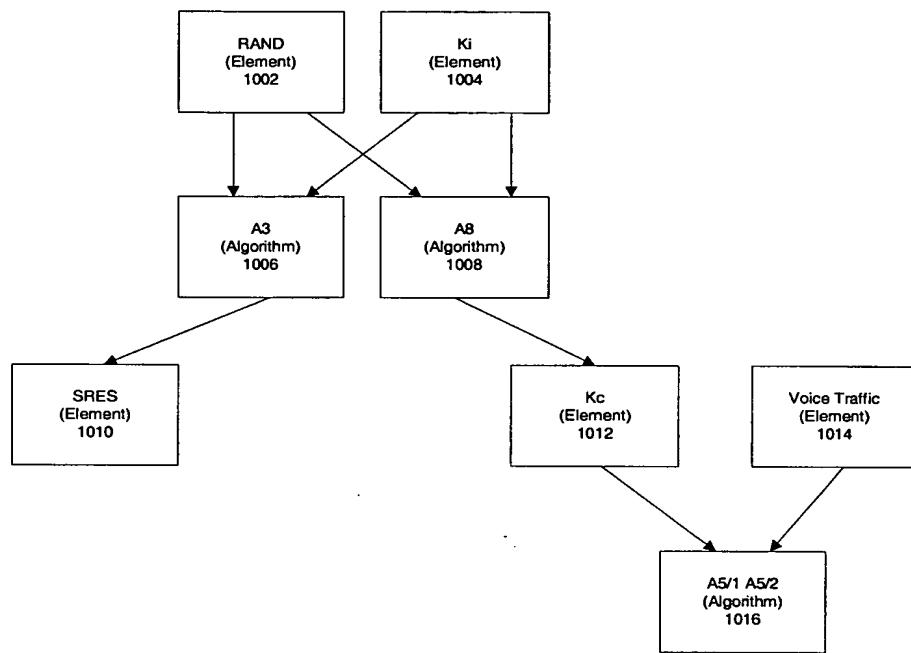


Figure 10 - GSM Key Generation

GSM Cryptography



GSM Authentiction

GSM Privacy

Figure 11 - CDMA Key Generation

CDMA Cryptography

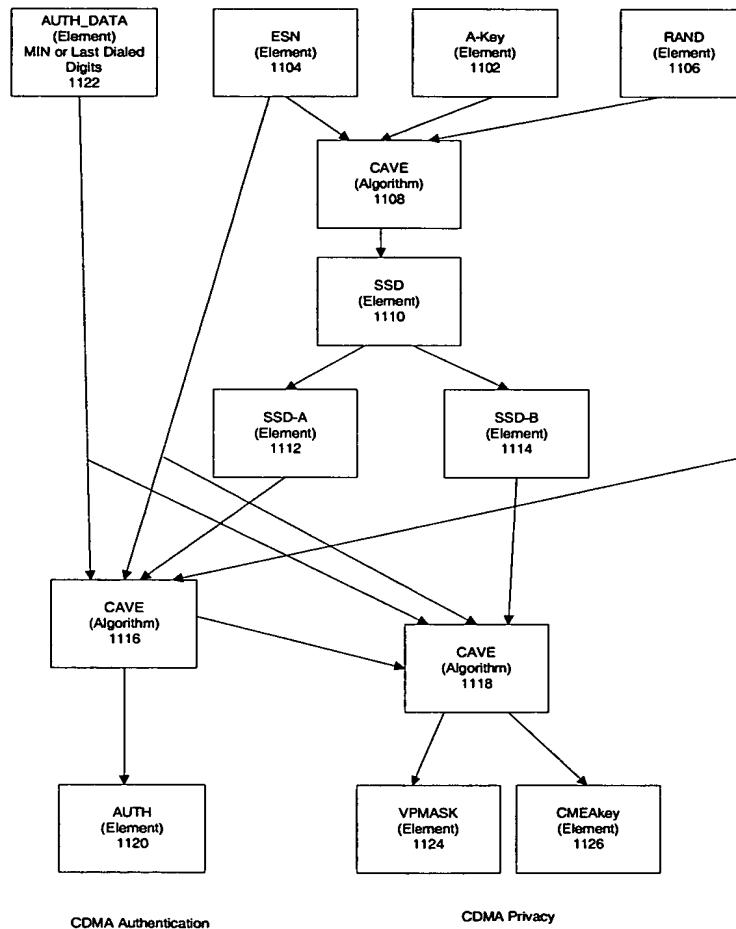


Figure 12 - Message Flow during Registration

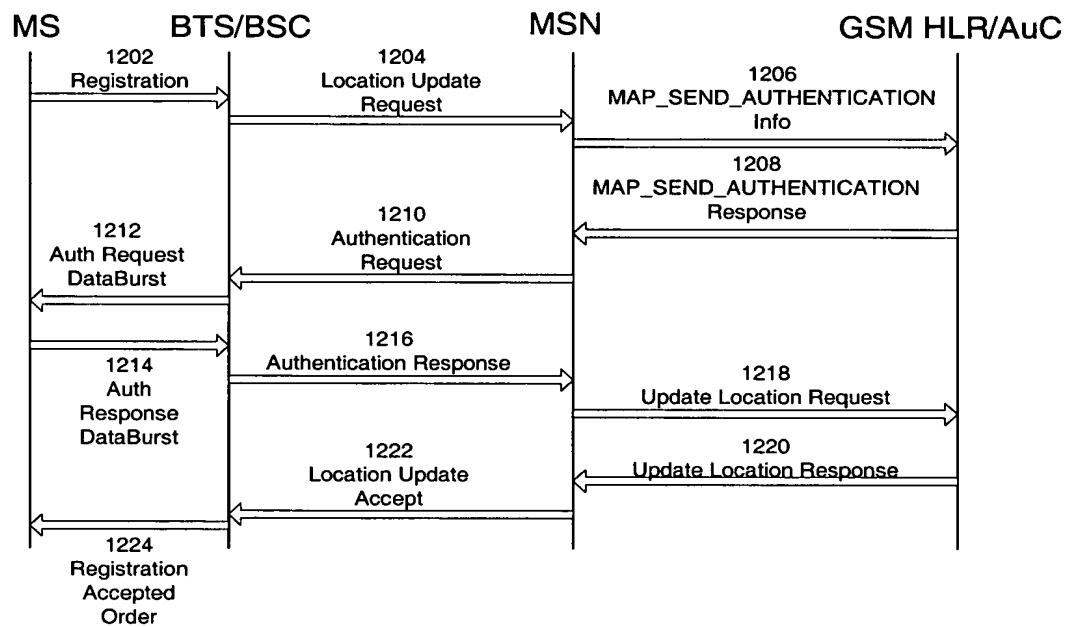


Figure 13 - Message Flow during MO Call

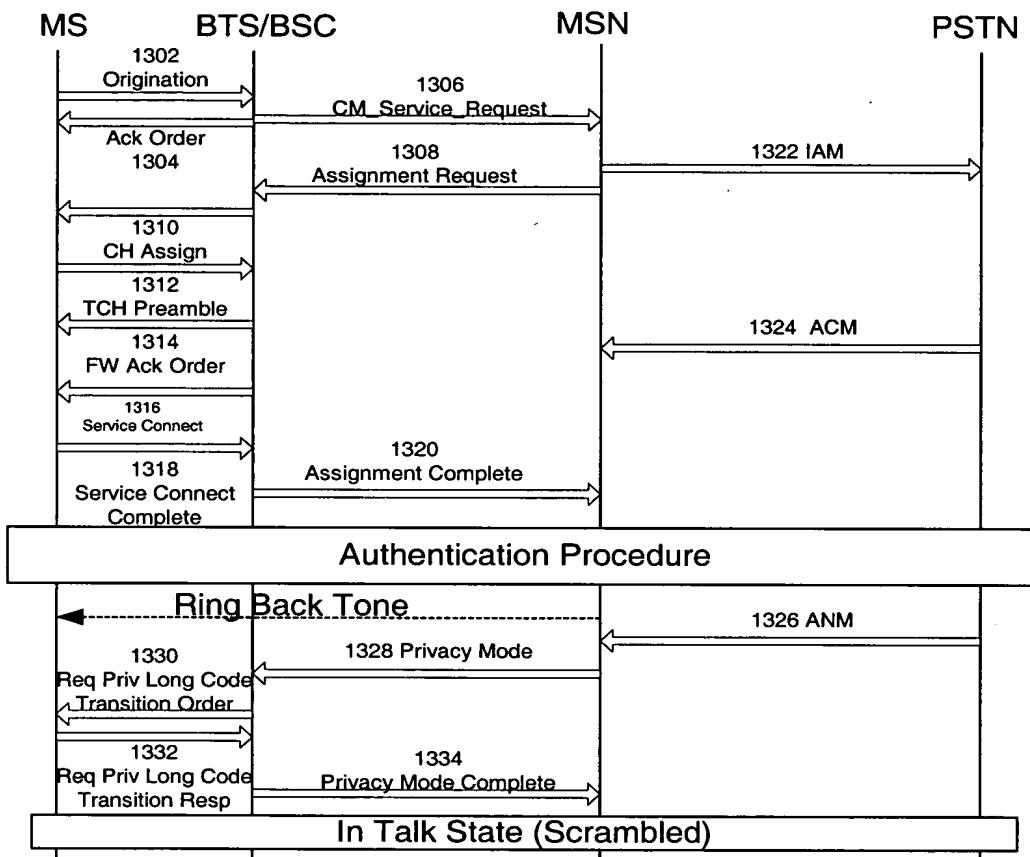


Figure 14 - Message Flow during MT Call

